Title (en)

GLASS SHAPING METHOD AND GLASS-SHAPED ARTICLE FORMED BY SAID METHOD

Title (de)

GLASFORMUNGSVERFAHREN UND MIT DIESEM VERFAHREN HERGESTELLTER GLASFÖRMIGER ARTIKEL

Title (fr)

PROCÉDÉ DE MODELAGE DE VERRE ET ARTICLE MODELÉ EN VERRE FORMÉ PAR LEDIT PROCÉDÉ

Publication

EP 3656745 A4 20210407 (EN)

Application

EP 18835380 A 20180615

Priority

- JP 2017139192 A 20170718
- JP 2018022963 W 20180615

Abstract (en)

[origin: EP3656745A1] A glass shaping method capable of grinding and/or polishing a fine brittle material more stably than conventional methods is provided. The glass shaping method of the present invention comprises: a mold forming step of shaping a surface of a base material having a higher melting temperature than a glass softening point to form a mold 10; a glass molding step of sealing softened glass into a groove 15 formed in a surface of the mold 10 by the forming step to mold a glass substrate 17; a glass processing step of cutting, grinding and/or polishing the glass substrate 17, with the mold 10 being fixed, to form a glass shaped article 1; and a step of eliminating only the base material 16 of the mold 10 after the glass processing step to remove the glass shaped article 1 from the mold.

IPC 8 full level

C03B 19/02 (2006.01); **B24B 7/24** (2006.01); **C03B 23/00** (2006.01); **G04B 1/14** (2006.01); **G04B 17/06** (2006.01)

CPC (source: EP US)

B24B 7/24 (2013.01 - EP); **B24B 7/241** (2013.01 - US); **C03B 19/02** (2013.01 - US); **C03B 23/0026** (2013.01 - EP); **G04B 1/145** (2013.01 - EP); **G04B 17/066** (2013.01 - EP); G04B 17/066 (2013.01 - US)

Citation (search report)

- [XAI] US 2004180517 A1 20040916 - QUENZER HANS-JOACHIM [DE], et al
- [XA] WO 2012074952 A1 20120607 - CORNING INC [US], et al
- See also references of WO 2019017125A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3656745 A1 20200527; **EP 3656745 A4 20210407**; CN 110869326 A 20200306; JP 2019019028 A 20190207; JP 6762914 B2 20200930; US 2020207656 A1 20200702; WO 2019017125 A1 20190124

DOCDB simple family (application)

EP 18835380 A 20180615; CN 201880045949 A 20180615; JP 2017139192 A 20170718; JP 2018022963 W 20180615; US 201816631428 A 20180615